## FUTURE STEEL BUILDINGS INTL. CORP.

## Certificate of Design and Manufacturing Conformance with NBC, 2005

This Certificate is to affirm that all components of the Steel Building System described below, to be supplied by the named Manufacturer certified in accordance with CSA-A660, have been or will be designed and fabricated in accordance with the following Standards to carry the loads and load combinations specified.

<b>1. DESCRIPTION</b> Manufacturer's Name and Address: F	uture Steel Buildings	Intl. Corp., 73 Ward Rd.	, Brampton, ON L6S 6A8
Manufacturer's Certificate No. under C			Stories establis Producted by Production of the accordance Product States
	1-1409		
_	(40-21x56		
	COMMERCIAL		
		mal	
	S AVE, WINNIPEG, MB F		
Applicable Building Code: NBC'05	SAVE, WINNIFEG, MD 1	(OE 333	
Builder's Name and Address: DENNIS	CONOWICH - CITY OF W	INNIDEG ELEET MANAGMEN	NT 770 ROSS AVE WINNIP
Owner's Name and Address: DENNIS R			
Owner's Ivallie and Address. DENNIST	CONOWICH - CITT OF W	INNIFEG FLEET MANAGMEN	VI, 110 ROSS AVE, WINNIF
2. DESIGN STANDARDS			Engineer's Initials
National Building Code of Canada 2005	5, Part 4: Struc	tural Design	P.G.
CAN/CSA-S16-01, Limit State	es Design of Steel Str	ructures	=
Other (enecifu)	n Specification for the L	Design of Cold-Formed Stee	el Structural Members
3. MANUFACTURING STANDARDS			P.G.
<ul> <li>(a) Fabrication has been, or will be, in applicable.</li> <li>(b) Welding has been or will be perforr applicable.</li> <li>(c) The Manufacturer has been certified CSA-W55.3 if applicable.</li> </ul>	med in accordance wed in accordance with	ith CSA-W59 and CAN/C	CSA-S136, as
(d) Welders have been qualified in acc			N/A
Purlin braces are provided in accordance particular, for a standing seam roof sup bottom purlin flange have been or will bless than 1 for spans up to 7m inclusive	ported on movable c e provided. The num	lips, braces providing late ber of rows is determine	eral support to both top and
5. LOADS			P.G.
(a) Snow and Rain Load	4.0	<i>u</i> =	<b>a</b>
1-in-50 year ground snow load, Ss,	1.9	(kPa)	
1-in-50 year associated rain load, Sr,	0.2	(kPa)	
Wind exposure factor, Cw,	1.0		
Importance factor, ls,	1.0	/LD-\	
Roof snow load, S,	1.72	(kPa)	
Drift load considered (NBC Sub-section	The state of the s		ng
Specified rain load ( <i>NBC</i> Article 4.1.6.4	·) N/A	(mm)	
*Initial each true statement. Mark N/A if	statement does not a	apply.	(Continued)

**Engineer's Initials** 

(b) Full and Partial Snow Load	P.G.
<ul> <li>(i) Applied on any one and any two adjacent spans of continuous purlins.</li> <li>(ii) Applied on any one and any two adjacent spans of modular rigid frames with continuous roughlier (iii) Applied as described for the building geometry in NBC, Part 4, and in the User's Guide – Note Structural Commentaries (Part 4), Commentary G: Snow Loads.</li> </ul>	
(c) Wind Load	P.G.
1-in-50 year reference velocity pressure (kPa)	
Importance factor, lw, 1.0	
<ul> <li>(d) Wind Load Application</li> <li>(i) Applied as per NBC, Part 4, Sub-section 4.1.7.</li> <li>(ii) Pressure coefficients as per User's Guide – NBC 2005 Structural Commentaries (Part 4), Commentary I: Wind Loads. Figures I3 thru I12.</li> </ul>	P.G.
(iii) Building internal pressure Category 1 per User's Guide – NBC 2005 Structural Comm (Part 4), Commentary I: Wind Loads.	entaries
(e) Crane Loads (where applicable)	N/A
Type       (top-running) (under-running)         Capacity       (tonnes)         Wheel base       (m)         Maximum static, vertical wheel load       (kN)         Vertical impact factor       (kN)         Lateral factor       (%) lateral wheel load       (kN)         Longitudinal factor       (%) maximum longitudinal load       (kN/side)	
(f) Mezzanine Live Load(kPa)	N/A
(g) Seismic Load  Applied as per NBC, Part 4, Sub-section 4.1.8  Sa (0.2)0.12 Sa (0.5)0.056 Sa (1.0)0.023 Sa (2.0)0.006 Fa2.1 Fv2.1  (h) Other Live Loads	P.G.
N/A	
(i) Dead Loads  Dead load of building components is incorporated in the design  Collateral load (mechanical, electrical, ceiling, sprinklers, etc) (kPa)  Mezzanine 0	
(j) Load Combinations Applied in accordance with NBC, Part 4 Section 4.1.	P.G.
6. GENERAL REVIEW DURING CONSTRUCTION  The Manufacturer does not provide general review during construction for regulatory purposes	
*Initial each true statement. Mark N/A if statement does not apply.	
7. CERTIFICATION BY ENGINEER  I, Ping Guo, a Professional Engineer registered or licensed to practice in the Province or Territo ONTARIO, hereby certify that I have reviewed the design and manufacturing process for the st system described. I certify that the foregoing statements, initialed by me, are true.	
Name Ping Guo Signature	
Title Engineering Manager  Affiliation Future Steel Buildings Intl. Corp.  Date	1 13
Professional Seal	

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<b>1. DESCRIPTION</b> Manufacturer's Name and Address: F	uture Steel Buildings Intl. Corp	o., 73 Ward Rd., Brampton, ON	L6S 6A8
Manufacturer's Certificate No. under C			
	1-1408		
	(40-21x54		
Intended Use and Occupancy:	COMMERCIAL		
	ce 4.1.2.1(3)): Normal		
	S AVE, WINNIPEG, ON R3E 3S3		
Applicable Building Code: NBC'05			·
	KONOWICH - CITY OF WINNIPEG F	FLEET MANAGMENT, 770 ROSS AVE	, WINNIP
and the second s	KONOWICH - CITY OF WINNIPEG F	LEET MANAGMENT, 770 ROSS AVE	, WINNIP
2. DESIGN STANDARDS		Engineer'	s Initials
National Building Code of Canada 200	5, Part 4: Structural Des	107	P.G.
_	es Design of Steel Structures	_	1.0.
	n Specification for the Design of	Cold-Formed Steel Structural Mem	nbers
3. MANUFACTURING STANDARDS		_	P.G.
<ul> <li>(a) Fabrication has been, or will be, in applicable.</li> <li>(b) Welding has been or will be performan applicable.</li> <li>(c) The Manufacturer has been certified CSA-W55.3 if applicable.</li> <li>(d) Welders have been qualified in accordance.</li> </ul>	med in accordance with CSA-Ned in accordance with CSA-We	W59 and CAN/CSA-S136, as	
4. PURLIN STABILITY		_	N/A
Purlin braces are provided in accordan particular, for a standing seam roof sup bottom purlin flange have been or will bless than 1 for spans up to 7m inclusive	oported on movable clips, brac be provided. The number of ro	es providing lateral support to b ws is determined by analysis bu	ooth top and
5. LOADS		_	P.G.
(a) Snow and Rain Load			
1-in-50 year ground snow load, Ss,	1.9	(kPa)	
1-in-50 year associated rain load, Sr,	0.2	(kPa)	
Wind exposure factor, Cw,	1.0		
Importance factor, Is,	1.0		
Roof snow load, S,	1.72	(kPa)	
Drift load considered (NBC Sub-section			
Specified rain load (NBC Article 4.1.6.4	1) N/A	(mm)	
*Initial each true statement. Mark N/A is	f statement does not apply.	(Co	ntinued)

(i) Applie (ii) Applie (iii) Applie	and Partial Snow Load ed on any one and any two adjacent spans of continuous ed on any one and any two adjacent spans of modular ri- ed as described for the building geometry in NBC, Part 4 I Commentaries (Part 4), Commentary G: Snow Loads.	gid frames with cor		
(c) Wind	Load			P.G.
1-in-50 ye	ear reference velocity pressure0.45	(kPa)		
Important	ce factor, lw,1.0			
(i) Applied (ii) Pressu Comm	Load Application d as per NBC, Part 4, Sub-section 4.1.7. ure coefficients as per User's Guide – NBC 2005 Structumentary I: Wind Loads. Figures I3 thru I12. ng internal pressure Category _1_ per User's Guide – (Part 4), Commentary I: Wind Loads.			P.G.
(e) Crane	Loads (where applicable)			N/A
Type Capacity Wheel bas Maximum Vertical im Lateral fac	se	_ (tonnes) _ (m) _ (kN) _	. (kN)	Control Control Control
(f) Mezzai	nine Live Load(kPa)			N/A
(g) Seism Applied as		Fa_2.1	Fv_ 2.1_	P.G.
(h) Other	Live Loads			
(i) Dead L Dead load	Loads I of building components is incorporated in the design load (mechanical, electrical, ceiling, sprinklers, etc)  0	0 (kPa) ( )	– (kPa)	
	combinations accordance with NBC, Part 4 Section 4.1.			P.G.
6. GENER	RAL REVIEW DURING CONSTRUCTION			
The Manu	facturer does not provide general review during constru	ction for regulatory	purposes.	
*Initial eac	ch true statement. Mark N/A if statement does not apply.			
	FICATION BY ENGINEER			
I, Ping Gud ONTARIO	o, a Professional Engineer registered or licensed to pract, hereby certify that I have reviewed the design and mar scribed. I certify that the foregoing statements, initialed	nufacturing process	for the steel	
Name	Ping Guo Signature		A COM	
Title Affiliation Profession	Engineering Manager  Future Steel Buildings Intl. Corp.  Date  nal Seal	JUN	3 8 2011	
		The state of the s	CICOL WILL	